

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listing of claims in the present application:

LISTING OF CLAIMS:

1. (Currently Amended) An intradermal needle assembly for use with a prefabricated container having a reservoir capable of storing a substance for injection into the skin of an animal comprising:

a hub portion being attachable to the prefabricated container storing the substance;

a needle cannula supported by said hub portion and having a forward tip

extending away from said hub portion; and

a limiter portion surrounding said needle cannula and extending away from said hub portion toward said forward tip of said needle cannula, said limiter including a generally flat skin engaging surface extending in a plane generally perpendicular to an axis of said needle cannula and adapted to be received against the skin of the animal to administer an intradermal injection of the substance, said limiter portion and said needle cannula being non-movable with respect to each other said hub portion and said needle cannula such that said needle cannula forward tip extends beyond said skin engaging surface a distance approximately 0.5 mm to 3.0 mm and wherein said limiter portion limits penetration of the needle into the dermis layer of skin of the animal so that the substance is injected into the dermis layer of the animal.

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2. (Previously Presented) The assembly as set forth in claim 1 wherein said plane is generally perpendicular to said axis of said needle cannula within about fifteen degrees.

3. (Previously Presented) The assembly as set forth in claim 1 wherein said plane is generally perpendicular to said axis of said needle cannula within about five degrees.

4. (Previously Presented) The assembly as set forth in claim 1 wherein said hub portion and said limiter portion are formed as separate pieces.

5. (Previously Presented) The assembly as set forth in claim 4 wherein said limiter portion defines an inner cavity receiving at least a portion of said hub and including an abutment engaging a corresponding structure on said hub portion thereby limiting the length of said needle cannula extending beyond said skin engaging surface.

6. (Previously Presented) The assembly as set forth in claim 5 wherein said hub portion includes a throat for receiving the prefillable container.

7. (Previously Presented) The assembly as set forth in claim 6 wherein said needle cannula is fixedly attached to said hub portion.

8. (Previously Presented) The assembly as set forth in claim 7 wherein said needle cannula is fixedly attached to said hub portion with an adhesive.

9. (Previously Presented) The assembly as set forth in claim 8 wherein said adhesive comprises an epoxy curable with ultra violet light.

10. (Previously Presented) The assembly as set forth in claim 9 wherein said limiter portion includes a plurality of snaps engaging said hub portion thereby fixedly attaching said hub portion to said limiter portion.

17. (Previously Presented) The assembly as set forth in claim 1 wherein said substance includes an influenza vaccine.

18. (Previously Presented) The assembly as set forth in claim 1 wherein said needle assembly is attachable to a preffillable container with a Luer fit.

24. (Previously Presented) The assembly as set forth in claim 1 further including a forward cap being matable to a rearward cap wherein said forward and rearward caps enclose said needle assembly therebetween.

25. (Previously Presented) The assembly as set forth in claim 24 wherein said forward cap and said rearward cap form a sterile enclosure for storing said needle assembly.

26. (Previously Presented) The assembly as set forth in claim 1 wherein said skin engaging surface includes an outer diameter of at least 5 mm.

B 27. (Currently Amended) An intradermal needle assembly for use with a prefabricated container having a reservoir capable of storing a substance for injection into the skin of an animal comprising:

a hub portion having a throat for receiving the prefabricated container;
a needle cannula being supported by said hub portion and having a forward tip extending away from said hub portion;
a limiter portion surrounding said hub portion and said needle cannula and extending away from said hub portion toward said forward tip of said needle, said limiter portion including a generally flat skin engaging surface extending in a plane generally perpendicular to an axis of said needle cannula and being adapted to be received against the skin of an animal to receive an intradermal injection of the substance, said limiter portion and said needle cannula being non-movable with respect to each other said hub portion and said needle cannula such that said forward tip extends beyond the skin engaging surface from approximately 0.5 mm to approximately 3.0 mm and wherein the limiter portion limits penetration of said needle cannula

into the dermis layer of the skin of the animal thereby injecting the substance into the dermis layer of the animal.

28. (Previously Presented) The assembly as set forth in claim 27 wherein said plane is generally perpendicular to said axis of said needle cannula within about fifteen degrees.

29. (Previously Presented) The assembly as set forth in claim 27 wherein said plane is generally perpendicular to said axis of said needle cannula within about five degrees.

30. (Previously Presented) The assembly as set forth in claim 27 wherein said hub portion and said limiter portion are formed as separate pieces.

31. (Previously Presented) The assembly as set forth in claim 30 wherein said limiter portion defines an inner cavity receiving at least a portion of said hub and including an abutment engaging a corresponding structure on said hub portion thereby limiting the length of said needle cannula extending beyond said skin engaging surface.

32. (Previously Presented) The assembly as set forth in claim 31 wherein said needle cannula is fixedly attached to said hub portion.

33. (Previously Presented) The assembly as set forth in claim 32 wherein said needle cannula is fixedly attached to said hub portion with an adhesive.

34. (Previously Presented) The assembly as set forth in claim 33 wherein said adhesive comprises an epoxy curable with ultra violet light.

35. (Previously Presented) The assembly as set forth in claim 27 wherein said limiter portion includes a plurality of snaps engaging said hub portion thereby fixedly attaching said hub portion to said limiter portion.

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41. (Previously Presented) The assembly as set forth in claim 27 wherein said substance includes an influenza vaccine.

42. (Previously Presented) The assembly as set forth in claim 27 wherein said needle assembly is attachable to a preffillable container with a Luer fit.

48. (Previously Presented) The assembly as set forth in claim 27 further including a forward cap being matable to a rearward cap wherein said forward and rearward caps enclose said needle assembly therebetween.

49. (Previously Presented) The assembly as set forth in claim 48 wherein said forward cap and said rearward cap form a sterile enclosure for storing said needle assembly.

50. (Previously Presented) The assembly as set forth in claim 27 wherein said skin engaging surface includes an outer diameter of at least 5 mm.

51. (Currently Amended) An intradermal needle assembly attachable to a preffillable container having a reservoir adapted to contain a substance for use in intradermally injecting the substance into the skin of an animal, comprising:

a needle cannula affixed to a hub portion and being in fluid communication with the outlet port, said needle cannula having a forward tip that is adapted to penetrate an the skin of an animal; and

a limiter surrounding said needle cannula and having a generally flat skin engaging surface extending in a plane ranging between five and fifteen degrees from perpendicular to an axis of said needle cannula and being adapted to be placed against the skin of the animal to administer an intradermal injection of the substance, said limiter portion and said needle cannula being non-movable with respect to each other said hub portion and said needle cannula such that said needle cannula forward tip extends away from said skin engaging surface from approximately 0.5 mm to approximately 3.0 mm and wherein said limiter limits penetration of said forward tip into the dermis layer of the skin of an animal so that the substance is injected into the dermis layer of the skin.

52. (Previously Presented) The assembly as set forth in claim 51 wherein said hub portion and said limiter portion are formed as separate pieces.

53. (Previously Presented) The assembly as set forth in claim 51 wherein said limiter portion defines an inner cavity receiving at least a portion of said hub and including an abutment engaging a corresponding structure on said hub portion thereby limiting the length of said needle cannula extending beyond said skin engaging surface.

54. (Previously Presented) The assembly as set forth in claim 51 wherein said hub portion includes a throat for receiving the preffillable container.

55. (Previously Presented) The assembly as set forth in claim 51 wherein said needle cannula is fixedly attached to said hub portion.

56. (Previously Presented) The assembly as set forth in claim 55 wherein said needle cannula is fixedly attached to said hub portion with an adhesive.

57. (Previously Presented) The assembly as set forth in claim 56 wherein said adhesive comprises an epoxy curable with ultra violet light.

58. (Previously Presented) The assembly as set forth in claim 57 wherein said limiter portion includes a plurality of snaps engaging said hub portion thereby fixedly attaching said hub portion to said limiter portion.

61. (Previously Presented) The assembly as set forth in claim 51 wherein said hub portion includes a throat for receiving the prefabricable container.

62. (Previously Presented) The assembly as set forth in claim 61 wherein said needle cannula is fixedly attached to said hub portion with an adhesive.

63. (Previously Presented) The assembly as set forth in claim 62 wherein said adhesive comprises an epoxy curable with ultra violet light.

64. (Previously Presented) The assembly as set forth in claim 51 wherein said substance includes an influenza vaccine.

65. (Previously Presented) The assembly as set forth in claim 51 wherein said needle assembly is attachable to a prefabricable container with a Luer fit.

71. (Previously Presented) The assembly as set forth in claim 51 further including a forward cap being matable to a rearward cap wherein said forward and rearward caps enclose said needle assembly therebetween.

72. (Previously Presented) The assembly as set forth in claim 71 wherein said forward cap and said rearward cap form a sterile enclosure for storing said needle assembly.

73. (Previously Presented) The assembly as set forth in claim 51 wherein said skin engaging surface includes an outer diameter of at least 5 mm.